

3 (Sem-5) BOT M 2

2018

BOTANY

(Major)

Paper : 5.2

(Plant Pathology and Lichen)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions : 1×7=7

(a) Which penetrating structures are formed by fungal pathogens?

(b) What is chlorosis?

(c) Who discovered Bordeaux mixture?

(d) What are necrotrophs?

(e) Which disease was responsible for Irish famine?

(2)

- (f) What is the most destructive disease of sugarcane?
- (g) Write the name of a reindeer moss.
2. Write brief notes on the following : 2×4=8
- (a) Systemic infection
- (b) Primary inoculum and secondary inoculum
- (c) Crop rotation
- (d) Disease forecasting
3. Write briefly on any three of the following : 5×3=15
- (a) Koch's postulates
- (b) Pathotoxin and vivotoxin
- (c) Anthropochory
- (d) Hypersensitive response
- (e) Soil fumigation
- (f) Classification of lichen

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(Continued)

(3)

4. Give an account of dissemination and transmission of plant pathogens. 10

Or

5×2=10

Write notes on the following :

- (a) Yellow mosaic of bhindi
- (b) Leaf spot disease of cabbage
5. What is an epidemic? Discuss the factors related to the development of an epidemic. 2+8=10

Or

Give an account of the symptoms, causal organism, disease cycle and control measures of black stem rust of wheat. 2+2+3+3=10

6. Discuss the symptoms, causal organism, disease cycle and control measures of grey blight of tea. 10

Or

Give an illustrated account of methods of reproduction in lichens. 10

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